Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	350	simonson.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 11:42
L2	10	simonson-Peter.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 11:42
L3	9	simonson-Peter-\$.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 12:00
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2/15/2006 1:42:10 PM Page 3
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L66	3352	L65 not L63	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 13:05
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L75	483	170 173 174	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 13:30
L76	2182	(606/61).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/15 13:35
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L78	227	77 and rod	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 13:37

		70 75	110 000:10	00		2006/02/15 12 25
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S11	2075	S9 S10	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/09 17:21
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S16	39	(("5257993") or ("5261909") or ("5282801") or ("5282901") or ("5312404") or ("5415661") or ("5437669") or ("5437670") or ("5474551") or ("5498262") or ("5549608") or ("5554157") or ("5562662") or ("5569247") or ("5571191") or ("5672175") or ("5611800") or ("5716357") or ("5693053") or ("5716357") or ("4743260") or ("5890435") or ("5876459") or ("5891145") or ("re36758") or ("6183473") or ("6210413") or ("6248105") or ("6328739") or ("6413257") or ("6443956") or ("20030004572") or ("6565565") or ("6579319") or ("6623485") or ("6579319") or ("6623485") or ("6648887") or ("4815453")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 11:48
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S30	4	S28 and bias	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/10 17:36
S31	157	S28 and cross	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/10 17:36
S32	32	S31 and link	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/10 17:36
S33	2180	(606/61).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/06 14:14

			 					
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S36	102	S34 not S35	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/06 14:53
S37	1981	S33 not S34	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/06 14:53
S38	133	S37 and (first adj rod)	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/06 14:54
S39	97	S38 and (second adj rod)	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/06 15:01
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S41	311	S34 S35 S36 S39 S40	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/06 15:03
S42	36	S38 not S41	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/06 15:05
S43	347	S41 S42	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/06 15:06
S44	9359	vertebrae	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/06 15:24
S45	3610	S44 and rod	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/06 15:24
S46	3340	S45 not S43	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/06 15:24
S47	2036	S46 and slid\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/06 15:26
S48	1728	S46 and (slide or sliding)	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/06 15:27
S49	61	S48 and (first adj (vertebrae or rod))	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/06 15:33

2/15/2006 1:42:10 PM Page 16

S50	408	S43 S49	US-PGPUB;	OR	ON	2006/02/06 15:33
			USPAT;			
			USOCR			

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L76	2182	(606/61).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/15 13:35
L77	242	74 and (spin\$2 or verteb\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 13:37
L78	227	77 and rod	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 13:37
L79	0	78 not 75	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 13:37
L80	78	("20030004572" "20030028250" "32 19575" "3242922" "3565066" "4269 178" "4272401" "4361141" "436976 9" "4369770" "4382438" "4386603" "4404967" "4409968" "4411259" " 4419026" "4422451" "4448191" "45 67884" "4611582" "4662365" "4743 260" "4773402" "4815453" "4887596" "4946458" "4950269" "4987892" " 5002542" "5005562" "5024213" "51 02412" "5127912" "5129900" "5133 717" "5147360" "5181917" "520975 2" "5246442" "5257993" "5261909" "5282801" "5282901" "5312404" " 5415661" "5437669" "5437670" "54 74551" "5591166" "5611800" "5672175" "5693053" "5716357" "5800435" " 5876459" "5891145" "6183473" "62 10413" "6248105" "6328739" "6413 257" "6443956" "6554831" "656556 5" "6579319" "6623485" "6648887").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 13:56
L81	31	80 not 75	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 14:01
L82	514	75 81	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 14:01

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L83	87104	spin\$2 or verteb\$3	US-PGPUB	OR	ON	2006/02/15 14:09
L84	86941	83 not 82	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 14:09
L85	11074	84 and rod	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 14:10
L86	1912	85 and stabilization	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 14:10
L87	85	86 and slideabl\$2	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 14:14
L88	599	87 82	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 14:15

NON-PATENT LITERATURE

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File 155:MEDLINE(R) 1951-2006/Feb 13
         (c) format only 2006 Dialog
               Description
Set
       Items
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S2
       72300
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               SLIDE? ? OR SLIDING OR SLIDABLE OR SLIDEABLE
S3
       22721
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10/6/1

18774531 PMID: 16201331

[Spinal cord regeneration in rats after thoracic segmentectomy: restoration of the anatomical integrity of the spinal cord] 2005

10/7/3

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

12738639 PMID: 10664313

Cervical osteotomy for ankylosing spondylitis: an innovative variation on an existing technique.

Mehdian S M; Freeman B J; Licina P

The Centre for Spinal Studies and Surgery, University Hospital, Queen's Medical Centre, Nottingham, NG7 2UH, UK. smehdian@prima.net

European spine journal - official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society (GERMANY) 1999, 8 (6) p505-9, ISSN 0940-6719 Journal Code: 9301980

Publishing Model Print

Document type: Case Reports; Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Ankylosing spondylitis can produce severe fixed flexion deformity in the cervical spine. This deformity may be so disabling that it interferes with forward vision, chewing, swallowing and skin care under the chin. The only treatment available is an extension osteotomy of the cervical spine. Existing techniques of cervical osteotomy may be associated with risk of neurological injury. We describe a variation on an existing technique, which provides a controlled method of reduction at the osteotomy site, eliminating sagittal translation. The method employs a modular posterior cervical system consisting of lateral mass and thoracic pedicle screws

linked to titanium rods . Our technique substitutes the titanium rod with a temporary malleable rod on one side, allowing controlled reduction of the osteotomy as this rod bends and slides through the thoracic clamps. Once reduction is complete definitive contoured rods are inserted to maintain the correction while fusion takes place. This method appears less hazardous translation, and may reduce the risk of eliminating sagittal neurological injury during surgery. It achieves rigid internal fixation, obviating the need for a halo vest in the postoperative period.

Record Date Created: 20000321 Record Date Completed: 20000321

17/7/2

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

PMID: 11707709

A finite element investigation of upper cervical instrumentation.

Puttlitz C M; Goel V K; Traynelis V C; Clark C R

Department of Orthopaedic Surgery, University of California, Francisco 94143-0514, USA. puttlit@itsa.ucsf.edu

Nov 15 2001, 26 (22) p2449-55, ISSN 0362-2436 Spine (United States) Journal Code: 7610646

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Publishing Model Print

Document type: Journal Article

Languages: ENGLISH Main Citation Owner: NLM

Record type: MEDLINE; Completed ...

STUDY DESIGN: The finite element technique was used to predict changes in biomechanics that accompany the application of a novel instrumentation system designed for use in the upper cervical spine. OBJECTIVE: To determine alterations in joint loading, kinematics, and instrumentation stresses in the craniovertebral junction after application of a novel instrumentation system. Specifically, this design was used to assess the changes in these parameters brought about by two different cervical anchor types: C2 pedicle versus C2-C1 transarticular screws, and unilateral versus OF BACKGROUND DATA: Arthrodesis instrumentation. SUMMARY procedures can be difficult to obtain in the highly mobile craniovertebral junction. Solid fusion is most likely achieved when motion is eliminated. Biomechanical studies have shown that C1-C2 transarticular screws provide in craniovertebral constructs; however, implantation of stability good these screws is accompanied by risk of vertebral artery injury. A novel instrumentation system that can be used with transarticular screws or with C2 pedicle screws has been developed. This design also allows for unilateral or bilateral implantation. However, the authors are unaware of any reports to date on the changes in joint loading or instrumentation with the choice of C2 anchor or are associated stresses that unilateral/bilateral use. METHODS: A ligamentous, nonlinear, contact, three-dimensional finite element model of the CO-C1-C2 complex and a novel instrumentation system was developed. Validation of the model has been previously reported. Finite element models representing combinations of cervical anchor type (C1-C2 transarticular screws vs. C2 pedicle screws) and unilateral versus bilateral instrumentation were evaluated. All models were subjected to compression with pure moments in either flexion, extension, or lateral bending. Kinematic reductions with respect to the (uninjured and without instrumentation) case caused intact instrumentation use were reported. Changes in loading profiles through the

right and left CO-C1 and C1-C2 facets, transverse ligament-dens, and dens-anterior ring of C1 articulations were calculated by the finite element model. Maximum von Mises stresses within the instrumentation were predicted for each model variant and loading scenario. RESULTS: Bilateral instrumentation provided greater motion reductions than the unilateral instrumentation. When used bilaterally, C2 pedicle screws approximate the kinematic reductions and instrumentation stresses (except in lateral bending) that are seen with C1-C2 transarticular screws. The finite element model predicted that the maximum stress was always in the region in which the plate transformed into the rod. CONCLUSIONS: To the best of the authors' knowledge, this is the first report of predicting changes in loading in the upper cervical spine caused by instrumentation. The most significant conclusion that can be drawn from the finite element model predictions is that C2 pedicle screw fixation provides the same relative stability and instrumentation stresses as C1-C2 transarticular screw use. C2 pedicle screws can be a good alternative to C2-C1 transarticular screws when bilateral instrumentation is applied.

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ASRC Searcher: Jeanne Horrigan
Serial 10/780426
February 15, 2006
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File 73:EMBASE 1974-2006/Feb 15
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     5:Biosis Previews(R) 1969-2006/Feb W1
         (c) 2006 BIOSIS
File 94:JICST-EPlus 1985-2006/Nov W4
         (c) 2006 Japan Science and Tech Corp (JST)
File 144:Pascal 1973-2006/Jan W4
         (c) 2006 INIST/CNRS
File 431:MediConf: Medical Con. & Events 1998-2004/Oct B2
         (c) 2004 Dr. R. Steck
       8:Ei Compendex(R) 1970-2006/Feb W1
File
         (c) 2006 Elsevier Eng. Info. Inc.
       6:NTIS 1964-2006/Feb W1
        (c) 2006 NTIS, Intl Cpyrght All Rights Res
       Items Description
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S1
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      159014 SLIDE? ? OR SLIDING OR SLIDEAB? OR SLIDAB?
S2
      666488 ROD OR RODS
S3
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S4
S5
          10 Sort S5/ALL/PY, A
S6
         (Item 2 from file: 5)
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DIALOG(R) File 5:Biosis Previews(R)
(c) 2006 BIOSIS. All rts. reserv.
0007458074 BIOSIS NO.: 199140100965
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POSTERIOR SEGMENTAL SPINAL INSTRUMENTATION OF SCOLIOSIS WITH SLIDING VERTEBRAL RODS A PRELIMINARY REPORT OF 18 CASES WITH ARTHRODESIS

AUTHOR: BADELON O (Reprint); BENSAHEL H AUTHOR ADDRESS: PARIS, FRANCE**FRANCE

JOURNAL: Orthopaedic Transactions 14 (3): p800 1990

CONFERENCE/MEETING: COMBINED MEETINGS OF THE SCOLIOSIS RESEARCH SOCIETY AND EUROPEAN SPINAL DEFORMITIES SOCIETY, AMSTERDAM, NETHERLANDS, SEPTEMBER 17-22, 1990. ORTHOP TRANS.

ISSN: 0162-9379

DOCUMENT TYPE: Meeting RECORD TYPE: Citation LANGUAGE: ENGLISH

6/7/5 (Item 5 from file: 5)

DIALOG(R) File 5:Biosis Previews(R)

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0013242307 BIOSIS NO.: 200100414146

Jack for pulling a vertebral anchor

AUTHOR: Barker B Thomas (Reprint); Zdeblick Thomas

AUTHOR ADDRESS: Bartlett, TN, USA**USA

JOURNAL: Official Gazette of the United States Patent and Trademark Office

Patents 1247 (4): June 26, 2001 2001

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MEDIUM: e-file

ISSN: 0098-1133 Am State to the contract of th

DOCUMENT TYPE: Patent A Trib

RECORD TYPE: Abstract . : . . :

LANGUAGE: English

ABSTRACT: A device for pulling a vertebral anchor with a strain gauge in combination with a tension $\ensuremath{\operatorname{\textbf{rod}}}$. The device has a cylindrical telescopic the same of the same of the same

housing made of a first hollow cylinder received inside a second hollow cylinder such that the two hollow cylinders define a longitudinal passage from the proximal to the distal end of the cylindrical telescopic housing. The tension rod is slidably disposed within the longitudinal passageway and has a means mounted on or near its distal end to attach to a vertebral anchor (or bone screw). The first and second hollow cylinders are biased apart by a mechanical spring, which resides inside the second hollow cylinder. A means for moving said tension rod in a proximal direction with respect to said telescopic housing is then operatively attached to the housing, as well as, a strain gauge to directly measure the amount of tension placed on the tension rod when the device is in use.

6/7/7 (Item 7 from file: 5) DIALOG(R) File 5:Biosis Previews(R) (c) 2006 BIOSIS. All rts. reserv. 0014055874 BIOSIS NO.: 200300014593 Spinal rod transverse connectors AUTHOR: Gertzbein Stanley (Reprint); Sherman Michael C JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1263 (5): Oct. 29, 2002 2002 MEDIUM: e-file ISSN: 0098-1133 (ISSN print) DOCUMENT TYPE: Patent RECORD TYPE: Abstract
LANGUAGE: English ABSTRACT: A transverse fixator assembly for spanning between a number of longitudinal members situated adjacent a patient's vertebrae and methods for fixation of the spine which allow variation of the distance

longitudinal members situated adjacent a patient's vertebrae and methods for fixation of the spine which allow variation of the distance between two or more vertebrae. The assembly includes a number of connectors configured to span the distance between and engage the longitudinal members. The connectors define a thru-hole for engaging a bone bolt which is engaged to a vertebra plus a number of spikes projecting from the connector. A locking mechanism is configured to prevent the bolt from rotating relative to the connector when the nut is being tightened. One or more of the connectors may be a dynamic connector which is slidably engaged to the longitudinal members to vary the distance between the vertebrae for compression or distraction.

in the second of the 6/7/8 (Item 8 from file: 5) DIALOG(R) File 5:Biosis Previews(R) (c) 2006 BIOSIS. All rts. reserv. 0013752880 BIOSIS NO.: 200200346391 Implant for osteosynthesis device with hook AUTHOR: Alby Albert (Reprint) AUTHOR ADDRESS: Ch-Essertines, Switzerland**Switzerland JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1258 (2): May 14, 2002 2002 MEDIUM: e-file DOCUMENT TYPE: Patent
RECORD TYPE: Abstract 14 Turk LANGUAGE: English ABSTRACT: A spinal implant device arranged to clamp at least one vertebra

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includes a link rod , a hook defining a central bore and secured to a fixing head, a counterhook, an elongate member, a position control device and an interconnection arrangement between the counterhook and the hook. The fixing head has a pair of upwardly extending members forming a channel configured to accommodate the link rod . A nut engages the fixing head to exert a downward force onto the link rod . The elongate member attaches at one end to the counterhook and slidably engages the central bore of the hook such that the hook and the counterhook cooperate to define a clamp. The position control device cooperates with the hook and the elongate member to selectively maintain the hook in a position relative to the counterhook.

6/7/9 (Item 9 from file: 5) DIALOG(R) File 5:Biosis Previews(R) (c) 2006 BIOSIS. All rts. reserv. 0014289711 BIOSIS NO.: 200300248430 Mobile dynamic system for treating spinal disorder

AUTHOR: Rivard Charles-Hilaire (Reprint); Dujovne Ariel

AUTHOR ADDRESS: St. Lambert, Canada**Canada

JOURNAL: Official Gazette of the United States Patent and Trademark Office

Patents 1269 (5): Apr. 29, 2003 2003

MEDIUM: e-file

ISSN: 0098-1133 _(ISSN print)

DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: A mobile dynamic implantable spinal apparatus comprising at least one fixed bracket secured on a correcting rod and at least one mobile carrier slidably mounted on the correcting rod . The fixed bracket and the mobile carrier each include a body and a pedicle screw or a transverse process hook articulated to the body. The distribution of the degrees of freedom between the carrier and the rod , and the pedicle screws or hooks and the carrier and the fixed bracket provide a non-rigid assembly which preserves some of the natural mobility of the vertebrae and disk, and the potential growth of the spinal column.

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         (Item 10 from file: 5)
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DIALOG(R) File 5:Biosis Previews(R)
(c) 2006 BIOSIS. All rts. reserv.
0014203030 BIOSIS NO.: 200300161749
Orthopaedic rod /plate locking mechanism
AUTHOR: Selvitelli David M (Reprint); Reynolds Martin A; Doherty Thomas V
AUTHOR ADDRESS: Wellesley, MA, USA**USA
JOURNAL: Official Gazette of the United States Patent and Trademark Office
Patents 1267 (4): Feb. 25, 2003 2003
ISSN: 0098-1133 (ISSN print)
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English
ABSTRACT: An orthopaedic junction or anchor assembly for anchoring a
 linkage such as a rod or cable used for fixation or reduction. The
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assembly includes a slotted bolt that fits through an apertured plate, and a support platform that fits over the bolt, capturing the plate in a

عائب فالغالفين فوالعاني والمعارية

one-piece assembly for convenient installation. The base of the bolt is recessed in the plate and a cap or nut tightens down to secure the linking member, e.g., a rod or cable, in the bolt slot, simultaneously clamping the bolt to fix both its position and its orientation on the plate. The support platform has the form of a generally annular washer with an upper surface including a transverse groove on which the rod seats, and a lower surface abutting the plate. A sleeve potion may extend within and buttress the surrounding wall of the plate. The plate may take various forms, such as a hook or offset arm, an occipital T-plate, or a vertebra plate. In one embodiment the support platform is swaged to the bolt, allowing the bolt to rotate freely, and slide along the slot of the bone plate as a captive assembly, keeping all the components together without constraining the alignment during installation. Other embodiments employ mating ridge and groove, or other detents circumferentially on the bolt shaft and the inner face of the support, to snap and retain the pieces together. When the rod or other linkage has been positioned, a lock nut or cap then fastens onto the bolt to seat the rod against the support platform and lock both the position of the bolt and the angular orientation of its slot. Tightening the nut or cap pushes the rod downward to seat on the support plate and pulls the bolt upward to press the base of the bolt against the bottom of the plate. The bottom surfaces of the support washer as well as the plate-facing surface of the base may be roughened or textured to engage the plate, or otherwise increase resistance to rotational and lateral movement once the rod has been positioned and the nut is torqued down. .

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ASRC Searcher: Jeanne Horrigan
Serial 10/780426
February 15, 2006
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File 16:Gale Group PROMT(R) 1990-2006/Feb 14

(c) 2006 The Gale Group

File 160:Gale Group PROMT(R) 1972-1989

(c) 1999 The Gale Group

File 149:TGG Health&Wellness DB(SM) 1976-2006/Jan W5

(c) 2006 The Gale Group

File 148:Gale Group Trade & Industry DB 1976-2006/Feb 15

(c)2006 The Gale Group

File 135:NewsRx Weekly Reports 1995-2006/Feb W1

(c) 2006 NewsRx

File 129:PHIND(Archival) 1980-2006/Feb W1

(c) 2006 T&F Informa UK Ltd

File 441:ESPICOM Pharm&Med DEVICE NEWS 2006/Oct W4

(c) 2006 ESPICOM Bus.Intell.

File 9:Business & Industry(R) Jul/1994-2006/Feb 14

(c) 2006 The Gale Group

Items Description

9226 VERTEBRA? ? S1

223159 SLIDE? ? OR SLIDING OR SLIDEAB? OR SLIDAB? S2

120861 ROD OR RODS

1 S1(S)S2(S)S3

4/3, K/1 (Item 1 from file: 441)

DIALOG(R) File 441:ESPICOM Pharm&Med DEVICE NEWS

(c) 2006 ESPICOM Bus. Intell. All rts. reserv.

00048082 00051907 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Sintea Biotech launches spinal systems and instrumentation

Medical Industry Week

13 November 2002 (20021113)

RECORD TYPE: FULLTEXT - WORD COUNT: 1249

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1964 B. W. C. S.

化分量化 人名韦克洛韦尼 医硫矿

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English to the American Supplier of the Section Section (Section 1997)

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COMPANY: Sintea Biotech

(THIS IS THE FULLTEXT) The second of the second of the second of

TEXT:

...or more holes and different inter-axes, notwithstanding this represents a serious need, since the vertebral bodies have variable dimensions along the cervical rachis. The module thickness at the screw holes is typical for a posterior plate, while the rods holes are the minimum necessary to guarantee effective tightening. The sliding rods can be modelled in order to conform to, and/or correct, the spine curvature, with compression and/or spreading actions among the single modules impressed. The empty space among the rods can be filled up with some bone grafts for a more effective osteosynthesis.

The Cervical...

FOREIGN AND INTERNATIONAL PATENTS

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File 350:Derwent WPIX 1963-2006/UD,UM &UP=200610
                (c) 2006 Thomson Derwent
File 347: JAPIO Nov 1976-2005/Oct (Updated 060203)
                (c) 2006 JPO & JAPIO
              Items Description
               8109 VERTEBRA? ?
S1
            719620 SLIDE? ? OR SLIDING OR SLIDEAB? OR SLIDAB?
S2
            574429 ROD OR RODS
94 S1 AND S2 AND S3
S3
S4
S5
                   43 S2(S)S3(S)S1
                   43 IDPAT S5 (sorted in duplicate/non-duplicate order)
S6
                   42 IDPAT S5 (primary/non-duplicate records only)
S7
7/3,K/1 (Item 1 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.
017559908
                      **Image available**
WPI Acc No: 2006-071160/200608
Related WPI Acc No: 2006-071161
XRPX Acc No: N06-061580
   Scoliosis correcting device for vertebral column of child, has one
   sub-assembly with two rods connected to column by coupling units at
   ends of cord of arc defined by scoliosis curve and sliding via orifices
   placed at ends of U-shaped part
Patent Assignee: FORTIN F (FORT-I)
Inventor: FORTIN F; ROBIN J; SALES D G J
Number of Countries: 001 Number of Patents: 001
Patent Family:
Priority Applications (No Type Date): FR 20047138 A 20040629
Patent Details:
Patent No Kind Lan Pg Main IPC
                                                                 Filing Notes
FR 2872020 A1 16 A61B-017/70
Abstract (Basic):
                                                                       Section 196
                   The device has a sub-assembly (3) with two rods connected to
       the vertebral column by coupling units (33, 34) at the ends of a cord
       of arc defined by the curve of scoliosis. The rods slide freely
       through orifices situated at the ends of a U-shaped part (4) allowing
       optimal guiding of the rods . The part (4) has a rod with identical
       grooves to receive set screws for connection between sub-assemblies (2,
       3) through...
                   of the child increases the cord of arc defined by the scoliosis
       curve, as the rods are fixed on the vertebrae and slide freely in
       the U-shaped part, to effect straightening which tends to transform the
       curve... Make the reduction of the state
...the time of its installation. The design of the device enables easy
       installation in the vertebral column of the child with reduced
       encumbrance...
                          La de de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition della ```

7/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

(c) 2006 Thomson Derwent. All rts. reserv.

... :: ....

2147 1 71126

017437659 \*\*Image available\*\* WPI Acc No: 2005-761338/200578

XRPX Acc No: N05-628323

Rachidian osteosynthesis device for rachidian arthrodesis, has pedicle screw and push rod joining unit with main sleeve in which traversing bore, having transversal section, is formed along axis, where rod is mounted slidably in bore

Patent Assignee: RAZIAN H (RAZI-I)

Inventor: RAZIAN H

. ; ) Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date A1 20051118 FR 20045320 FR 2870108 A 20040517 200578 B Priority Applications (No Type Date): FR 20045320 A 20040517 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

FR 2870108 A1 17 A61B-017/70

Abstract (Basic):

The device permits the push rod to be maintained perfectly and prevented from sliding in translation in the sleeves, so that constant distances are defined between the vertebrae , thus obtaining effective osteosynthesis. The device is simple and hence easily implanted in the human...

(Item 3 from file: 350) 7/3, K/3

DIALOG(R) File 350: Derwent WPIX

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error general der sicher

017389641 \*\*Image available\*\*

WPI Acc No: 2005-713296/200573

XRPX Acc No: N05-585880 ---

Internal pedicle insulator apparatus for use in surgical instrument, has outer insertion rod which receives pressure to slide internal pedicle insulator implant along inner insertion rod toward vertebral body

Patent Assignee: CHAPPUIS J L (CHAP-I) 

.e. 5' -

Inventor: CHAPPUIS J L : :

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date US 20050240194 A1 20051027 US 2004563797 P 20040420 200573 B US 2005110005 A 20050420

Priority Applications (No Type Date): US 2004563797 P 20040420; US 

Patent No Kind Lan Pg Main IPC Filing Notes

US 20050240194 A1 6 A61B-017/58 Provisional application US 2004563797 Abstract (Basic):

The apparatus has an inner insertion rod (12) that is arranged to be slidably engaged inside an outer insertion rod . A pressure is applied to the outer insertion rod to slide an internal pedicle insulator implant along the inner insertion rod toward vertebral body until the implant is positioned within the body. A pedicle screw is returned to...

The pressure is applied to the outer insertion rod to slide the internal pedicle insulator implant along the inner insertion rod toward vertebral body until the implant is positioned within the

body, thus preventing repositioning of the screw...

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7/3,K/7
 (Item 7 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.
016349135
 Image available
WPI Acc No: 2004-507266/200448
XRPX Acc No: N04-400877
 Intervertebral implant used as an artificial vertebral disc has a middle
 part having a ventral side surface, a dorsal side surface, lateral side
 surfaces, a lower surface and an upper surface arranged between upper and
 lower parts
Patent Assignee: MATHYS MEDIZINALTECHNIK AG (MATH-N); SYNTHES GMBH (SYNT-N)
Inventor: FRIGG R; LECHMANN B
Number of Countries: 098 Number of Patents: 006
Patent Family:
 Applicat No Kind Date
Patent No Kind Date
 Week
WO 200454479 A1 20040701 WO 2002CH708 A 20021217 200448 B
AU 2002347120 A1 20040709 AU 2002347120 A 20021217 200474
WO 2002CH708 A 20021217
EP 1572039 A1 20050914 EP 2002782619 A 20021217 200560
 WO 2002CH708 A 20021217
BR 200215957 A 20050913 BR 200215957
 A 20021217 200561
 US 20060009850 A1 20060112 WO 2002CH708 A 20021217 200605
 US 2005539658 A 20050711
 A 20051223 NZ 540230 A 20021217 200605
NZ 540230
 WO 2002CH708 A 20021217
Priority Applications (No Type Date): WO 2002CH708 A 20021217
Patent Details: 18.00 - 18.50 - 18.50
Patent No Kind Lan Pg Main IPC
 Filing Notes
WO 200454479 A1 G 41 A61F-002/44
 Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
 CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
 PL PT RO RU SD SE SG SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
 Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB
 GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM
 . ,
AU 2002347120 A1 A61F-002/44 Based on patent WO 200454479
EP 1572039 A1 G * A61F-002/44 Based on patent WO 200454479
 Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
 GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR
BR 200215957 A A61F-002/44 Based on patent WO 200454479
 A61F-002/44
US 20060009850 A1
 •
NZ 540230 A A61F-002/44 Based on patent WO 200454479 Abstract (Basic):
 An INDEPENDENT CLAIM is also included for a process for
 replacing a defective natural vertebral disc using the intervertebral
 implant. Preferred Features: The lower surface of the fist part and the
 upper surface of the middle part are formed as sliding surface for
 the first cylindrical rod . The two sliding surface for the first
 rod are formed as planar, cylindrical or conical surfaces...
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(Item 8 from file: 350) 7/3,K/8 DIALOG(R) File 350: Derwent WPIX (c) 2006 Thomson Derwent. All rts. reserv. 016312448 \*\*Image available\*\* WPI Acc No: 2004-470343/200445 XRPX Acc No: N04-371701 Spinal fixation device for correcting curvature of spine includes slidable connection for connecting an anchoring screw to a solidifying rod, with slidable connection including a point designed to penetrate a vertebral bone Patent Assignee: VITATECH (VITA-N); VITATECH SA (VITA-N) Inventor: GRADEL T; LEMAIRE J; LEMAIRE J P Number of Countries: 030 Number of Patents: 003 Patent Family: Patent No Kind Date Applicat No Kind Date Week A1 20040618 FR 200216235 A 20021217 200445 B FR 2848408 WO 200464654 A1 20040805 WO 2003FR3735 A 20031216 200451 EP 1578289 A1 20050928 EP 2003815409 A 20031216 200563 WO 2003FR3735 A 20031216 Priority Applications (No Type Date): FR 200216235 A 20021217 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes FR 2848408 A1 19 A61B-017/70 WO 200464654 A1 F A61B-017/70 Designated States (National): JP KR US Designated States (Regional): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR EP 1578289 A1 F A61B-017/70 Based on patent WO 200464654 Designated States (Regional): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR Abstract (Basic): The spinal fixation device includes a slidable connection (4) for interconnecting an anchoring screw (1) and a solidifying rod (3). The sliding connection includes a hole (16) for passage of the anchoring screw, and a reception device (18) for receiving a section of the rod , oriented along a transverse axis and for receiving a tightening device (21,22) for tightening the rod in the reception device. The sliding connection also includes a point (9) designed for penetrating a vertebral bone to retain the sliding connection on the bone. " TO STANCE OF THE STANCE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE (Item 9 from file: 350) 7/3,K/9 DIALOG(R) File 350: Derwent WPIX (c) 2006 Thomson Derwent. All rts. reserv. \*\*Image available\*\* 016081052 WPI Acc No: 2004-238913/200422

Spinal rod sleeve system for treating spinal disorder, e.g. long, progressive longitudinal growth in young patients, comprises longitudinal spinal rod disposed within concentric sleeve having internal bearing layer and external 

Patent Assignee: MCAFEE P C (MCAF-I)

XRAM Acc No: C04-093509

XRPX Acc No: N04-189398 11

Inventor: MCAFEE P C

Number of Countries: 105 Number of Patents: 003

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Patent Family: Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Section of the Sectio

. . . . . . Patent No Kind Date Applicat No Kind Date Week WO 200417817 A2 20040304 WO 2003US26333 A 20030821 200422 B US 20040143264 A1 20040722 US 2002405775 P 20020823 200449 US 2003645202 A 20030821 AU 2003265597 A1 20040311 AU 2003265597 A 20030821 200457 Priority Applications (No Type Date): US 2002405775 P 20020823; US 2003645202 A 20030821 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes WO 200417817 A2 E 25 A61B-000/00 . . . Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZW -Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW US 20040143264 A1 A61B-017/70 Provisional application US 2002405775 AU 2003265597 A1 A61B-000/00 Based on patent WO 200417817 Abstract (Basic): 300 The invented spinal rod sleeve system helps preserve range of motion following spinal surgery. It also allows a vertebra to slide cephalad or caudad along a spinal rod sleeve system... and what shows the contraction 7/3,K/10 (Item 10 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2006 Thomson Derwent. All rts. reserv. 015332764 \*\*Image available\*\* WPI Acc No: -2003-393700/200337 XRPX Acc No: N03-314556 Vertebral column support has bone anchor screw with stop shoulder for sliding wedge clamp to retain fixing rod Patent Assignee: VITATECH (VITA-N); VITATECH SA (VITA-N); COTTIN P (COTT-I) ; GRADEL T (GRAD-I); JABY Y (JABY-I); LEMAIRE J (LEMA-I) Inventor: COTTIN P; GRADEL T; JABY Y; LEMAIRE J; LEMAIRE J P Number of Countries: 027 Number of Patents: 007 Patent Family: ••• \* Patent No Kind Date Applicat No Kind Date Week WO 200337198 Al :20030508 WO 2002FR3623 A 20021023 200337 B FR 2831420 A1 20030502 FR 200114289 A 20011030 200340 EP 1439790 A1 20040728 EP 2002796821 A 20021023 200449 WO 2002FR3623 A 20021023
US 20050010216 A1 20050113 WO 2002FR3623 A 20021023 200506
US 2004494355 A 20040427 JP 2005507281 W 20050317 WO 2002FR3623 A 20021023 200520 JP 2003539546 A 20021023 EP 1439790 B1 20051123 EP 2002796821 A 20021023 200577 DE 60207597 E 20051229 DE 207597 A 20021023
EP 2002796821 A 20021023
WO 2002FR3623 A 20021023
WO 2002FR3623 A 20021023 200603

Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes Kind Lan Pg Main IPC riling

Same and the first of the same

Priority Applications (No Type Date): FR 200114289 A 20011030

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ASRC Searcher: Jeanne Horrigan
Serial 10/780426
February 15, 2006
WO 200337198 A1 F 12 A61B-017/70
 Designated States (National): JP KR US
 Designated States (Regional): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
 IE IT LU MC NL PT SE SK TR
 A61B-017/70
FR 2831420
 A1
 A61B-017/70 Based on patent WO 200337198
EP 1439790
 A1 F
 Designated States (Regional): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
 IE IT LI LU MC NL PT SE SK TR
US 20050010216 A1 A61B-017/56
JP 2005507281 W 33 A61B-017/58 Based on patent WO 200337198 EP 1439790 B1 F A61B-017/70 Based on patent WO 200337198
 Designated States (Regional): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
 IE IT LI LU MC NL PT SE SK TR
 A61B-017/70 Based on patent EP 1439790
DE 60207597
 Ε
Abstract (Basic):
 The vertebral column support has a bone screw (1) with a
 threaded shank and a stop shoulder (7) on a cylindrical section (5).
 The stop shoulder engages a sliding clamp (4) which has a groove to
 receiving a fixing rod (3). The rod0 is retained by a wedge clamp
 (22) tensioned by a screw (21).
 1 A 16 8 , 1 1
 7/3,K/12
 (Item 12 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.
014448722 **Image available**
WPI Acc No: 2002-269425/200231
XRPX Acc No: N02-209644
 Mobile dynamic system for treating spinal disorder uses pair of
 implantable rods with fixed brackets and mobile carriers
Patent Assignee: HOPITAL SAINTE-JUSTINE (HOPI-N)
Inventor: DUJOVNE A; RIVARD C
Number of Countries: 098 Number of Patents: 005
Patent Family:
 1. 18

Patent No Kind Date Applicat No Kind Date
 Week
WO 200217803 A2 20020307 WO 2001CA1250 A 20010830 200231 B
AU 200187455 A 20020313 AU 200187455 A 20010830 200249
US 6554831 B1 20030429 US 2000653328 A 20000901 200331
EP 1313403 A2 20030528 EP 2001966911 A 20010830 200336
JP 2004507313 - W: - 20040311 - WO 2001CA1250 - A 20010830
 JP 2002522781 A 20010830
Priority Applications (No Type Date): US 2000653328 A 20000901
Patent Details:
Patent No Kind Lan Pg Main IPC
 Filing Notes
WO 200217803 A2 E 27 A61B-017/70
 Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
 CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
 PH PL PT RO RU SD SE'SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
 Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
```

IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW
AU 200187455 A A61B-017/70 Based on patent WO 200217803

"我看,我们身体的一样,""这个一个一个一个。"

EP 1313403 A2 E A61B-017/70 Based on patent WO 200217803

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

US 6554831 B1 A61B-017/56

LI LT LU LV MC MK NL PT RO SE SI TR JP 2004507313 W 43 A61B-017/56 Based on patent WO 200217803 Abstract (Basic):

The system comprises a pair of spinal implantable rods (12,14). Each rod may be curved to approximate a desirable three dimensional curve of the portion of the spinal column. One of the rods is used as a correcting rod to translate and maintain the vertebrae in a correct alignment while the other rod acts as a stabilizer. The rod extend through central fixed brackets (16a,16b) and mobile carriers (18a,18b). The carriers can slide on the rods.

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7/3,K/13
 (Item 13 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.
 Image available
013981228
WPI Acc No: 2001-465442/200150
XRPX Acc No: N01-345247
 Intervertebral connecting system has connecting bars between anchoring
 elements equipped with slidable fixings for lengthwise rods
Patent Assignee: BONE & JOINT RES SA (BONE-N); SCIENT'X (SCIE-N); SCIENT'X
 SARL (SCIE-N); MUNTING E (MUNT-I)
Inventor: MUNTING E
Number of Countries: 095 Number of Patents: 008
Patent Family:
 . .
Patent No Kind Date - Applicat No- Kind Date
WO 200154597 A1 20010802 WO 2001FR259 A 20010126 200150
FR 2804314 A1 20010803 FR 20001071 A 20000127 200150
AU 200131921 A 20010807 AU 200131921 A 20010126 200174
EP 1250101 A1 20021023 EP 2001903979 A 20010126 200277
 WO 2001FR259 A 20010126
JP 2003521302 W 20030715 JP 2001555577 A 20010126 200347
- WO 2001FR259 A 20010126
US 20030144665 A1 20030731 WO 2001FR259 A 20010126 200354
 US 2002182349 A 20021105
US 6916319 B2 20050712 WO 2001FR259 A 20010126 200546
 10 10 10 10 10 10 10 2002182349 A 20021105
 B1 20051221 EP 2001903979 A 20010126 200604
 1999 1 6 5 5 5 6 WO 2001FR259
 Α
 20010126
Priority Applications (No Type Date): FR 20001071 A 20000127
Patent Details:
Patent No Kind Lan Pg Main IPC
 Filing Notes
WO 200154597 A1 F -25 A61B-017/70
 Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
 CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
 KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT
 RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
 Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
 IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW
FR 2804314
 A1
 A61B-017/70
AU 200131921 A A61B-017/70 Based on patent WO 200154597
 A1 F 33 A61B-017/70
EP 1250101
 Based on patent WO 200154597
 Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
 LI LT LU LV MC MK NL'PT RO SE SI TR
JP 2003521302 W 24 A61B-017/58
 Based on patent WO 200154597
US 20030144665 A1 - A61B-017/56
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19413996

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ASRC Searcher: Jeanne Horrigan
Serial 10/780426
Serial 10/780426
February 15, 2006
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A61B-017/56 Based on patent WO 200154597 US 6916319 B2 EP 1250101 B1 F . A61B-017/70 Based on patent WO 200154597 Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR Abstract (Basic):

The connecting system consists of vertebral anchors (3) joined by curved connecting bars (6) with slidable fixings (14) for lengthwise rods (15). The connecting bars are joined to the anchors by fixings (7) which allow them to be rotated about their axes and locked in the required position. Both bars and rods are locked in place by clamping collars (8, 23) with threaded couplings and nuts...

(Item 15 from file: 350) 7/3,K/15 DIALOG(R) File 350: Derwent WPIX (c) 2006 Thomson Derwent. All rts. reserv. \*\*Image available\*\* 013440672 WPI Acc No: 2000-612615/200059

XRPX Acc No: N00-453759

Device to stabilise vertebrae ; has clamp with legs sliding on stabilising rod with bores having inserts for screws to fit in neighbouring vertebrae at variable angle, to clamp rod to vertebrae

Patent Assignee: SIGNUS MEDIZINTECHNIK GMBH (SIGN-N)

Inventor: KRETSCHMER P; SIEDLER U

Number of Countries: 002 Number of Patents: 002

Patent Family:

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DE 19914232 Al 20001005 DE 1014232 A 19990329 200059 B US 6299614 B1 20011009 US 2000538387 A 20000329 200162 Priority Applications (No Type Date): DE 1014232 A 19990329 Patent Details:

Patent No Kind Lan Pg Main IPC + Filing Notes

DE 19914232 A1 6 A61B-017/70 US 6299614 B1 A61B-017/68 Abstract (Basic):

The device has screws (1) to fit in neighbouring vertebrae and a stabilising rod (9) connecting the screws. A clamp (7) has two legs (5,6) that slide along the rod and is clamped to it between each screw. The threaded part (3) of each screw... and wife with the first transfer of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contra

7/3,K/16 (Item 16 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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013155395 \*\*Image 'available\*\* \ ... \*\* \*\*\* WPI Acc No: 2000-327267/200028

XRPX Acc No: N00-246247

Device for correction of vertebral column deformation Patent Assignee: TATARSTAN RESTORATIVE TRAUMATOLOGY (TATA-R)

Inventor: AKHTYAMOV I F; GAFAROV KH Z; IBRAGIMOV YA KH

1312 200

Number of Countries: 001 Number of Patents: 001

Patent Family: Patent No Kind Date Applicat No Kind Date Week RU 2132169 C1 19990627 RU 98100496 A 19980106 200028 B Priority Applications (No Type Date): RU 98100496 A 19980106 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes RU 2132169 C1 A61B-017/70 Abstract (Basic):

are positioned on external side of clamps for movement in mutually perpendicular directions. Threaded tie- rods are secured to clamps on the other side through end supports. Threaded tie- rods carry bearing plates hinge-connected to each other. Bearing plates are capable of moving along threaded tie- rods, and they can be fixed. Supporting arc end is hinge-connected to one bearing plate. Second end of supporting arc is hinged to second bearing plate through slide. It is capable of moving longitudinally and may be fixed, is required. Puller is mounted...

...supports for movement and fixation. Device facilitates recovery of functional biomechanics and normal form of vertebral column.

(Item 17 from file: 350) 7/3,K/17 DIALOG(R) File 350: Derwent WPIX (c) 2006 Thomson Derwent. All rts. reserv. 012938055 \*\*Image available\*\* WPI Acc No: 2000-109902/200010 XRPX Acc No: N00-084428 Spine fixing tool used for e.g. fixing deformed vertebra of spine Patent Assignee: SUGA N (SUGA-I); KAN N (KANN-I) Number of Countries: 001 Number of Patents: 002 Patent Family: Patent No Kind Date Applicat No Kind Date Week JP 11347047 A 19991221 JP 98179734 A 19980610 200010 B JP 3593262 B2 20041124 JP 98179734 A 19980610 200477 Priority Applications (No Type Date): JP 98179734 A 19980610 Patent Details: Patent No Kind Lan Pg \* Main IPC \* Filing Notes JP 11347047 A · · · 8 A61B-017/58 · · · · · · JP 3593262 B2: 10 A61B-017/58 Previous Publ. patent JP 11347047 Abstract (Basic): 10 A61B-017/58 Previous Publ. patent JP 11347047 screws (2,3) of the screw attachment arms (4,5) are attached individually to the vertebra. The arms are attached in a rod (6). The fixing screw (4a) allows the screw attachment arms to slide along the predetermined range of the **rod** when the waist is bent and turned.

Allows easy movement of **vertebra** when bending and turning the waist since pressure applied to vertebra is reduced. Prevents breakage of spine fixing tool by allowing screw attachment arms to slide along rods. Contagno La Taker 

7/3,K/23 (Item 23 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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009998010 \*\*Image available\*\*
WPI Acc No: 1994-265721/199433
XRPX Acc No: N94-209145

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ing with the great

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Osteosynthesis fixing system for lumbar/sacral vertebrae - comprises two-section rods with fixing screws and guides for upper ends

Patent Assignee: SOFAMOR SOC FAB MATERIEL ORTHOPEDIQUE (SOFA-N); SOPRANE SA (SOPR-N); FOURNET-FAYARD J (FOUR-I); GALLAND O (GALL-I); GARIN C (GARI-I); LUCET A (LUCE-I)

Serial 10/780426 February 15, 2006

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Inventor: FOURNET-FAYARD J; GALLAND O; GARIN C; LUCET A
Number of Countries: 009 Number of Patents: 008
Patent Family:
Patent No
 Kind Date
 Applicat No
 Kind
 Date
 Week
EP 612507
 A1 19940831 EP 94420067 A 19940222 199433 B
 A 19930224
FR 2701833
 A1 19940902 FR 932357
 199435
 19930224
 FR 932357
 Α
 A1 19940916 FR 932357
FR 2702361
 A 19930224
 199437
 FR 94563
 A 19940114
FR 2702362
 A1 19940916 FR 941661 A 19940209 199437
 A 19960123 US 94200409 A 19940223 199610
B1 19981209 EP 94420067 A 19940222 199902
E 19990121 DE 615054 A 19940222 199909
US 5486174
EP 612507
DE 69415054 E
 EP 94420067
 A 19940222
ES 2126090 T3 19990316 EP 94420067 A 19940222 199918
Priority Applications (No Type Date): FR 941661 A 19940209; FR 932357 A
 19930224; FR 94563 A 19940114
Patent Details:
Patent No Kind Lan Pg
 Main IPC
 Filing Notes
EP 612507
 A1 F 8 A61B-017/58
 Designated States (Regional): BE CH DE ES FR GB IT LI
 Div ex application FR 932357
FR 2701833
FR 2702361
 A1
 Div ex application FR 932357
US 5486174
 8 A61B-017/70
 Α
EP 612507 B1 F A61B-017/58
 Designated States (Regional): BE CH DE ES FR GB IT LI
DE 69415054 E
 A61B-017/58 Based on patent EP 612507
 A61B-017/58 Based on patent EP 612507
ES 2126090
 Т3
... Abstract (Basic): The fixing system consists of two parallel assemblies,
 each with a coupling rod (4) which has a first section (4a) to
 cooperate with locking elements (7) on pedicular screws (3), and a
 second section (4b) of smaller diameter, able to slide freely in a
 guide (5) and reduce the stress on the disc of the vertebra
 immediately above the last fixed one...
... Abstract (Equivalent): A fastener for implanting to spaced vertebrate
 for relieving stress on a vertebral disc of a vertebral stage of
 patient's spinal column which is adjacent at least two vertebral
 stages which are mechanically united to one another and wherein each of
 the vertebral stages includes a vertebra having pedicles, the
 fastener comprising, a fastener rod having first and second portions,
 said second portion having a diameter which is less than...
...means having a portion which is adapted to be anchorable into adjacent
 pedicles of the vertebrae of the at least two vertebral stages,
 each of said pedicle screw means including tightening means for
 securing said first portion of said rod to said at least two pedicle
 screw means so as to be in fixed relationship to the at least two
 vertebral stages when said fastener is in use, a guidance means having
 a screw portion which is adapted to be anchored into a pedicle of the
 vertebra of the next adjacent vertebral stage and a head portion,
 said head portion having an open passageway, said second portion of
 said fastener rod being continuously slidably engaged within said
 open passageway when said fastener is implanted in the vertebrae and
 said first portion of said rod is secured to said at least two
 pedicle screw means which are fixed to the at least two vertebral
 stages and said guidance means is secured to the next adjacent
 vertebral stage, whereby said fastener relieves stress on the disc
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ASRC Searcher: Jeanne Horrigan Serial 10/780426

February 15, 2006

adjacent the at least two vertebral stages when in use...

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7/3,K/24 (Item 24 from file: 350)
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DIALOG(R) File 350: Derwent WPIX

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009981113 \*\*Image available\*\*
WPI Acc No: 1994-248827/199430

XRPX Acc No: N94-196604

Spinal implant fixation system - includes rod with channel having opening to permit top-loading of rod connector, and has threaded bore

Patent Assignee: SDGI HOLDINGS INC (SDGI-N); DANEK MEDICAL INC (DANE-N)

Inventor: ANDERSON M N; BRUMFIELD D L; LUQUE E R Number of Countries: 051 Number of Patents: 021

Patent Family:

| Patent No Ki                                                | .nd Date Ap             | plicat No          | Kind | Date     | Week   |
|-------------------------------------------------------------|-------------------------|--------------------|------|----------|--------|
| NO 0435554 B                                                | 1 10040501 50           | 0.41701.00         | - 74 | 10040304 |        |
| AU 9460826 A                                                | A 19940815 AU           | 9460826            | A    | 19940104 | 199442 |
| ZA 9400021 A                                                | 19941130 ZA             | 9421               | Α    | 19940104 | 199502 |
| EP 683653 A                                                 | 1 19951129 EP           | 94907143           | Α    | 19940104 | 199601 |
| AU 9460826 A<br>ZA 9400021 A<br>EP 683653 A<br>BR 9405744 A | WO                      | 94US108            | A    | 19940104 |        |
| BR 9405744 A                                                | 19951205 BR             | 945744             | A    | 19940104 | 199607 |
|                                                             | WO                      | 3409T00            | A    | T2240T04 |        |
| US 5527314 A                                                | 19960618 US             | 93278              | A    | 19930104 | 199630 |
| US 5534002 A                                                | 19960709 US             | 93278 👫 🕒          | A    | 19930104 | 199633 |
|                                                             | US                      | 95478901           | Α    | 19950607 |        |
| US 5562662 A                                                | 19961008 US             | 93278              | Α    | 19930104 | 199646 |
| JP 8505304 W                                                | 30 mil 10 m 10 mil 10 m | 95480871           | A    | 19950607 |        |
| JP 8505304 W                                                | 7 : 19960611 JP         | 94516164           | Α    | 19940104 | 199648 |
| ← *, ←                                                      | WO                      | 94US108            | A    | 19940104 |        |
| EP 683653 A                                                 | 419960807EP             | 94907143           | Α    |          | 199701 |
| EP 683653 A                                                 | 19960821 TW             | 94100762           | Α    | 19940131 | 199702 |
| US 5609592 A                                                | · 19970311 US           | 93278              | Α    | 19930104 | 199716 |
| US 5609592 A                                                | ្រាស្រាស្សា 😂 <b>US</b> | 95481045           | Α.   | 19950607 |        |
| AU 677377 'E                                                | 3 · 19970424 · AU       | 9460826            | A.   | 19940104 | 199725 |
| AU 9714893 A                                                | 19970515 AU             | 9460826            | A٠   | 19940104 | 199728 |
|                                                             | AU                      | 9714893            | Α `  | 19970224 |        |
| AU 9714894 A                                                | 19970515 AU             | 9460826            | Α    | 19940104 | 199728 |
| . *. *                                                      | AU                      | 9714894            |      |          |        |
| CN 1117264 A                                                |                         | 94191060           | Α .  | 19940104 | 199742 |
| AU 687698 B                                                 | 19980226 AU             | 9460826            | A    | 19940104 | 199821 |
| • ,                                                         | . See that the AU       | 9714893            | A    | 19970224 |        |
| AU 687699 B                                                 | 19980226 AU             | 9460826            | Α    | 19940104 | 199821 |
| AU 687699 B<br>MX 187745 B<br>EP 683653 B                   | estal alib — <b>au</b>  | 9460826<br>9714894 | A    | 19970224 |        |
| MX 187745 B                                                 | 19980112 MX             | 94117              | Α    | 19940103 | 200046 |
| EP 683653 B                                                 | 1 20020911 EP           | 94907143           | A    | 19940104 | 200264 |
|                                                             | WO                      | 94US108            | Α    | 19940104 |        |
| DE 69431348 E                                               | 20021017 DE             | 631348             | A    | 19940104 | 200276 |
| € -                                                         | . to the EP             | 94907143           | A    | 19940104 |        |
| •                                                           | , WO                    | 94US108 '          | A    | 19940104 |        |

Priority Applications (No Type Date): US 93278 A 19930104; US 95478901 A 19950607; US 95480871 A 19950607; US 95481045 A 19950607

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

: 15

WO 9415554 A1 E 53-A61F-005/00

Designated States (National): AU BB BG BR BY CA CN CZ FI HU JP KP KR KZ

Serial 10/780426 February 15, 2006

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LK LV MG MN MW NO NZ PL RO RU SD SK UA US UZ VN
 Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL
 OA PT SE
AU 9460826
 Based on patent WO 9415554
 Α
ZA 9400021
 A 44 A61F-000/00
 A1 E 1
 Based on patent WO 9415554
EP 683653
 Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
 NL PT SE 9405744 A
BR 9405744
 Based on patent WO 9415554
US 5527314 A 18 A61B-017/70
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US 5562662 A 16 A61B-017/70
 Div ex application US 93278
 Div ex application US 93278
JP 8505304 W · 53 A61B-017/56
 Based on patent WO 9415554
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 A61F-002/44
 Div ex application US 93278
 Div ex patent US 5527314
 Previous Publ. patent AU 9460826
AU 677377 B A61B-017/70
 Based on patent WO 9415554
AU 9714893 A
 Div ex application AU 9460826
 A61B-017/70
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 A61B-017/70
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AU 687698 B A61B-017/70
 Previous Publ. patent AU 9714893
AU 687699 B A61B-017/70
 Div ex application AU 9460826
 Previous Publ. patent AU 9714894
MX 187745 B A61B-017/056
EP 683653 B1 E - A61F-005/00
 Based on patent WO 9415554
 Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
 NL PT SE

DE 69431348
 A61F-005/00
 Based on patent EP 683653
 Based on patent WO 9415554
... Abstract (Equivalent): drawing the spinal rod and the one fixation
 element toward each other while sliding the rod connectors along
 the stems of tile corresponding fixation elements, to thereby draw the
 spinal rod and instrumented vertebra toward each other; and...
 - 25.3 to 1.15
 7/3,K/25
 (Item 25 from file: 350)
DIALOG(R) File 350: Derwent WPIX
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WPI Acc No: 1994-118079/199414 · · 1. 4. S. W. L. .، ز ن XRPX Acc No: N94-092557

Device for stabilising bone segments - has several fixation devices which each span several vertebrae and each has threaded lateral surfaces

Patent Assignee: HD MEDICAL INC (HDME-N) Inventor: JACOBSON R E; MIRSON B J

Number of Countries: 019 Number of Patents: 005

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| Patent Family | <b>':</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | •              |      |          |        |   |
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| Patent No     | Kind Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Applicat No    | Kind | Date     | Week   |   |
| WO 9406361    | -A2 19940331                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | WO 93US8475    | Α,   | 19930909 | 199414 | В |
| US 5382248    | A ~19950117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | US 92944206    | Α    | 19920910 | 199509 |   |
| WO 9406361 '  | A3 19940526                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | WO 93US8475    | A    | 19930909 | 199516 |   |
| EP 719114     | A1 19960703                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EP 93920504    | Α    | 19930909 | 199631 |   |
|               | en de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Servición de la Serv | WO 93US8475 🔪  | `A'  | 19930909 |        |   |
| JP 8501237    | W 19960213                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | WO 93US8475    | Α    | 19930909 | 199643 |   |
|               | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | JP 94508156    | . A  | 19930909 |        |   |
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | \$ 1 m 1 m 1 m |      |          |        |   |
|               | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |      |          |        |   |

ASRC Searcher: Jeanne Horrigan

Serial 10/780426 February 15, 2006

Priority Applications (No Type Date): US 92944206 A 19920910 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes WO 9406361 A2 E 49 A61B-017/56 A 20 A61B-017/56 US 5382248

EP 719114 A1 E 49 A61B-017/56 Based on patent WO 9406361 Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

JP 8501237 W 43 A61B-017/56 Based on patent WO 9406361

A3 A61B-017/56 WO 9406361

... Abstract (Equivalent): The apparatus for stabilising a plurality of bone segments, such as vertebrae of a spinal column, comprises one or more fixation devices. Each fixation device comprises an elongated rod having a longitudinal slot through its upper and lower surfaces and having threaded lateral surfaces. Slotted or axially threaded blocks are slidably or rotatably movable along each rod into predetermined positions corresponding to locations selected for securing the apparatus to the bone...

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7/3, K/26 (Item 26 from file: 350)
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DIALOG(R) File 350: Derwent WPIX

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009745969 \*\*Image available\*\* WPI Acc No: 1994-025820/199403

XRPX Acc No: N94-020146

Device anchored to vertebra to treat deviation of spine - has locking elements and locking plates with anti-slip projections and threaded part holding slide on connecting rod

Patent Assignee: CHOPIN D (CHOP-I); GROSSE A (GROS-I); ROUSSOULY P (ROUS-I) ; TAGLANG G (TAGL-I)

Inventor: CHOPIN D; GROSSE A; ROUSSOULY P; TAGLANG G; TAGLAND G

Number of Countries: 021 Number of Patents: 011 

Patent Family:

Patent No Kind Date Applicat No Kind Date Week WO 9400062 A1 19940106 WO 93FR605 A 19930618 199403 B FR 2692471 - A1-19931224 FR 927504 A 19920619 199404 A 19940124 AU 9343330 A 19930618 199420 AU 9343330 EP 645986 A1 19950405 EP 93913159 A 19930618 199518 WO 93FR605 A 19930618 MO 93FR605 A 19930618

JP 7504593 W 19950525 WO 93FR605 A 19930618

AU 670097 B 19960704 AU 9343330 A 19930618 199634

EP 645986 B1 19970326 EP 93913159 A 19930618 199717

WO 93FR605 A 19930618

DE 69309272 E 19970430 DE 609272 A 19930618 199723

EP 93913159 A 19930618

MO 93FR605 A 19930618

DE 09309272 E 19970430 DE 609272 A 19930618 199723 WO 93FR605 A 19930618 CA 2137374 C 19970520 CA 2137374 A 19930618 199732 ES 2102655 T3 19970801 EP 93913159 A 19930618 199737 US 5810817 - - A 1 19980922 WO 93FR605 - A 1 19930618 199845 

Priority Applications (No Type Date): FR 927504 A 19920619

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes 

> 2012/04/2012

February 15, 2006

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WO 9400062
 A1 F 36 A61B-017/58
 Designated States (National): AU CA JP US
 Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL
AU 9343330
 A61B-017/58
 Based on patent WO 9400062
 A1 F A61B-017/58
EP 645986
 Based on patent WO 9400062
 Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
 NL PT SE
 W 1 A61B-017/58
 Based on patent WO 9400062
JP 7504593
AU 670097 B A61B-017/64 Previous Publ. patent AU 9343330
 Based on patent WO 9400062
 B1 F 24 A61B-017/70
 Based on patent WO 9400062
EP 645986
 Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
 NL PT SE
 A61B-017/70
DE 69309272
 Based on patent EP 645986
 Based on patent WO 9400062
 A61B-017/70
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 Based on patent EP 645986
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US 5810817
 Α
 A61B-017/70
 Cont of application WO 93FR605
 Cont of application US 94351251
FR 2692471 : A1 A61B-017/58
... Abstract (Basic): device has bone screws (1) or hooks (2) to which it is
 fixed to the vertebra . These have a locking plate (7) and a threaded
 cylindrical part. A bolt (8) is screwed on to this to tighten a slide
 (4) on to a connecting rod which has a circular cross section...
... Abstract (Equivalent): Spinal therapy device comprising: vertebral
 anchoring elements (1,2,200,202,50,56) having an anchoring part
 (9,15,50,150,56) shaped to be anchored in or on the bone of a vertebra
 and extending by a screw-threaded cylindrical part (5) onto which a
 clamping nut (8) is screwed, at least one circular cross-section
 fastening rod (3) having a smooth outside surface, connecting slides
 (4) for connecting anchoring elements (1,2,200,202,50,56) to the
 fastening rod (3), the connecting slides (4) having a clamping part
 (17) and a connecting part (18), the clamping part (17) having inside
 surfaces (22) shaped to surround a section of the fastening rod (3)
 and being deformable for selectively clamping it to and releasing it
 from the fastening rod (3), the connecting part (18) having first
 branch (19) and a second branch (20) extending...
...non-slip projections' (27) to oppose any rotation and any lateral
 displacement of the connecting slide (4) relative to the anchoring
 element after clamping contact surface (26) of the second branch...
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7/3,K/27 (Item 27 from file: 350) 2 DIALOG(R) File 350: Derwent WPIX (c) 2006 Thomson Derwent. All rts. reserv. \*\*Image available\*\* 009721648 WPI Acc No: 1994-001498/199401 Shock-absorber for intra-vertebral stabilisation - is designed to progressively resist piston movement Patent Assignee: SOC PSI (PSIP-N); PSI PRODUCTIVITY SYSTEMS INC (PSIP-N); and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t PSI (PSIP-N) Inventor: NAVAS F Number of Countries: 021 Number of Patents: 010 Patent Family: 

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Tanaharan Kabupatèn Kebupatèn 
Patent No Kind Date Applicat No Kind Date EP 576379 A1 19931229 EP 93420274 A 19930624 199401 B
FR 2692952 A1 19931231 FR 928068 A 19920625 199405
AU 9341254 A 19940106 AU 9341254 A 19930615 199408
CA 2098155 A 19931226 CA 2098155 A 19930610 199411
US 5375823 A 19941227 US 9373417 A 19930609 199506
JP 7289562 A 19951107 JP 93153549 A 19930624 199602
AU 667912 B 19960418 AU 9341254 A 19930635 100605 Week AU 667912 B 19960418 AU 9341254 A 19930615 199623 EP 576379 B1 19960911 EP 93420274 A 19930624 199641 DE 69304624 E 19961017 DE 604624 A 19930624 199647

EP 93420274 A 19930624 B1 20000302 KR 9311678 19930625 200122 KR 236010 Α

Priority Applications (No Type Date): FR 928068 A 19920625

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

A1 F 6 A61B-017/60

Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI LU MC NL PT SE

FR 2692952 A1 F16F-001/36 AU 9341254 A A61B-017/56 CA 2098155 7 CA 2098155 | A. F16F-009/48 US 5375823 A 6 F16F-001/36 JP 7289562 A 4 A61B-017/60

В AU 667912 B A61B-017/56 Previous Pu EP 576379 B1 F 7 A61B-017/60 A61B-017/56 Previous Publ. patent AU 9341254

Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI LU MC NL PT SE

DE 69304624 E A61B-017/60 Based on patent EP 576379

B1 A61F-002/44 KR 236010

... Abstract (Equivalent): The intervertebral stabiliser for attachment into two vertebrae comprises a housing having opposite ends and defining an internal chamber. One of the ends of the housing being closed. A piston is slidably deposed within the internal chamber. A first rod extends outwardly relative to the chamber from one end of the housing and a second rod extends outwardly relative to the chamber from the 20 July 17 piston...  $(N_{ij}) \cap \mathcal{D}(M_{ij}) \cap \mathcal{D}(M_{$ 

7/3,K/28 (Item 28 from file: 350) DIALOG(R) File 350:Derwent WPIX (c) 2006 Thomson Derwent. All rts. reserv. \*\*Image available\*\* 009628841 WPI Acc No: 1993-322390/199341 XRPX Acc No: N93-248444

Perpendicular rod connector for spinal fixation mechanism - has first fixator connected to vertebra which has bar and second which is shiftable in relation to first and connected to spinal rod

Patent Assignee: BRISTOL-MYERS SQUIBB CO (BRIM ); ZIMMER INC (ZIMV )

Inventor: DIMAR J R; JOHNSON J R; LOZIER A J

Number of Countries: 008 Number of Patents: 006

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Patent Family:

 
 Patent No
 Kind
 Date
 Applicat No
 Kind
 Date
 Week

 EP 565149
 A2 19931013
 EP 93200634
 A 19930305
 199341

 AU 9332802
 A 19930916
 AU 9332802
 A 19930204
 199344

 CA 2088961
 A 19930205
 199348
 A 19930305 199341 B A3 19940302 EP 93200634 A 19930305 199519 EP 565149 

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ASRC Searcher: Jeanne Horrigan
Serial 10/780426
February 15, 2006
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A 19930204 199530
AU 659912
 В
 19950601 AU 9332802
 A 19950801 US 92848904 A 19920310 199536
US 94192871 A 19940307
US 5437671
Priority Applications (No Type Date): US 92848904 A 19920310; US 94192871 A
 19940307
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
EP 565149 A2 E 6 A61B-017/60
 Designated States (Regional): DE FR GB IT
AU 659912 B A61B-017/56 Previous Publ. patent AU 9332802
US 5437671
 Α
 5 A61B-017/56 Div ex application US 92848904
AU 9332802 A A61B-017/56
CA 2088961 A
 A A61B-017/56
A3 A61B-017/60
EP 565149
 ... Abstract (Equivalent): A first rod is connected by two pedicle screws
 transverse to the spine across a vertebra . The perpendicular
 connector is then connected to the first rod anywhere along the rod.
 the longitudinal spinal rod is then connected to the perpendicular
 rod connector using common connectors. the perpendicular connector is
 slidable along the first rod .
 Additional to the
 7/3,K/29
 (Item 29 from file: 350)
DIALOG(R) File 350: Derwent WPIX
 (c) 2006 Thomson Derwent. All rts. reserv.
009417813 **Image available**
WPI Acc No: 1993-111327/199314 · · · ·
XRPX Acc No: N93-084789
 Spinal osteosynthesis system - has rods connected to anchoring elements
 or brackets by flexible lugs which are compressed by locking elements
Patent Assignee: FIXANO SA (FIXA-N)

Inventor: CARTOUX R; LESCUYER J; MARTIN J; LALAIN J; MICHEL F; SAMANI J
Number of Countries: 009 Number of Patents: 005 Patent Family:
Patent No Kind Date Applicat No Kind Date
 Week
EP 536066
 A1 19930407 EP 92420340 A 19920929 199314 B
FR 2681776 A1 19930402 FR 9112206 A 19910930 199326
US 5368594 A 19941129 US 9344378 A 19930402 199502 N
EP 536066 B1 19960417 EP 92420340 A 19920929 199620
DE 69209960 E 19960523 DE 609960 A 19920929 199626
EP 92420340 A 19920929
Priority Applications (No Type Date): FR 9112206 A 19910930; US 9344378 A
19930402 Patent Details: 1993
Patent No Kind Lan Pg Main IPC
 Filing Notes
EP 536066 A1 F 8 A61B-017/58
 Designated States (Regional): BE CH DE ES FR GB IT LI
US 5368594 A 6 A61F-005/01
EP 536066 B1 F 8 A61B-017/58
 1
 Designated States (Regional): BE CH DE ES FR GB IT LI
DE 69209960 E A61B-017/58 Based on patent EP 536066
FR 2681776 A1 A1 A61B-017/58
... Abstract (Equivalent): Vertebral osteosynthesis device, comprising two
 rigid support rods (3) on which there can be mounted bone anchoring
 elements comprising attachment members (5a, 5b) consisting of either
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hooks designed to be engaged around vertebral apophyses, or screws

CONTRACTOR NOT SERVICE

designed to bear in the pedicle of the vertebrae each of the anchoring elements (5) comprising on the one hand two lateral walls... ...parallel and flexible, defining between them a channel (11) adjusted to the diameter of the rods (3) and on the other hand a clamping element (12) suitable for being engaged on... ...lateral walls (10), at the top ends thereof, is less than the diameter of the rods (3) so that the latter can be held temporarily between them by snapping in and... ...legs come to bear against the lateral walls (10) whilst moving them closer together and slide on them during clamping (Item 30 from file: 350) 7/3,K/30 DIALOG(R) File 350: Derwent WPIX (c) 2006 Thomson Derwent. All rts. reserv. \*\*Image available\*\* WPI Acc No: 1992-142294/199218 XRPX Acc No: N92-106454 Surgical re-positioning of vertebrae - involves instrument with crossbar and tie-bar fitted with nut and gripper Patent Assignee: ULRICH H (ULRI-I) Inventor: ULRICH H; VONSTREMPE A Number of Countries: 001 Number of Patents: 001 Patent Family: Kind Date Applicat No Kind Patent No Date DE 4108918 C 19920430 DE 4108918 A 19910319 199218 B Priority Applications (No Type Date): DE 4108918 A 19910319 Patent No Kind Lan Pg Main IPC Filing Notes DE 4108918 C 9 ... Abstract (Basic): USE/ADVANTAGE - Spinal surgery, vertebrae repositioning, discs etc. Tie rod force in slide axis plane enables vertebra to be moved parallel to this onto adjoining vertebrae . State of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the prop (Item 31 from file: 350) DIALOG(R) File 350:Derwent WPIX (c) 2006 Thomson Derwent. All rts. reserv. 008790191 \*\*Image available\*\* 1.0 WPI Acc No: 1991-294206/199140 XRPX Acc No: N91-225258/ 📴 Vertical column correction device - guide consists of bush with pins fitting into slide (table On the control of the control of Patent Assignee: GUPALOV V-K (GUPA-I) Inventor: GUPALOV V:K; KHRAMOV N'P; RODNYANSKI L L Number of Countries: 001 Number of Patents: 001 Patent Family: 1 ...... Kind Date Applicat No Kind Week Patent No Date SU 1607793 A 19901115 199140 B Priority Applications (No Type Date): SU 4444108 A 19880511 ... Abstract (Basic): In the vertebral column correction device, the guide is made in the form of a bush (10) with pins (11) fitting into the slide (5). The hooks (3) and stop can go round the bodies of the vertebrae . The links (2) have ring projections (12) fitting in the

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grooves of the rod (1...

 $\{(\cdot,\cdot): \lambda \in \mathbb{R}^n : x \in \mathbb{R}^n \}$ 

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7/3,K/36 (Item 36 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2006 Thomson Derwent. All rts. reserv. 007174910 WPI Acc No: 1987-171919/198725 XRPX Acc No: N87-129001 Spinal deformations and scoliosis treatment - involves two U-shaped rods attached to spine which form telescopic rectangular frame Patent Assignee: ASSISTANCE PUBLIQUE (ASSI-N) Inventor: BADELON O Number of Countries: 001 Number of Patents: 001 Patent Family: Patent ramily:
Patent No Kind Date Applicat No Kind Date A 19870515 FR 8516683 A 19851112 198725 B FR 2589716 Priority Applications (No Type Date): FR 8516683 A 19851112 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes FR 2589716 A 9 ... Abstract (Basic): Linkages pass around the lateral branches of the rods and over the projecting portions (2) of the vertebrae (1) to hold the vertebrae in line with the rectangular frame. The U-shaped rods can slide relative to one another allowing the frame to elongate gradually as the spine grows... the transfer of the second 7/3,K/37 (Item 37 from file: 350) DIALOG(R)File 350:Derwent WPIX (c) 2006 Thomson Derwent. All rts. reserv. 004023697 WPI Acc No: 1984-169239/198427 XRPX Acc No: N84-125955 Vertebral column corrector - has guides holding slide with cylindrical spring linked by pusher to screw Patent Assignee: RODNYANSKII L L (RODN-I) Inventor: GUPALOV V K; RODNYANSKI L L Number of Countries: 001 Number of Patents: 001 40.00 Patent Family: --Patent No Kind Date Applicat No Kind Date Week SU 1049051 A 19831023 SU 3414342 A 19820323 198427 B Priority Applications (No Type Date): SU 3414342 A 19820323 Patent No Kind Lan Pg Main IPC Filing Notes ... Abstract (Basic): The device for the correction of the vertebral column has a rigid 'rod' (1) to which guides (2) are rigidly attached. Guides (2) enter apertures in the lugs (3) of slide (4). In the recess in slide (4) there is a cylindrical compression spring (5) which is pressed on by nut (6... ...7) on which there is a pointer (8) which moves in the groove (9) of slide (4), while slide (4) is marked with a scale (10). One end of screw (11) presses on pusher... in the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of

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WPI Acc No: 1982-F8857E/198220

Device for vertebral, column dislocation taxis - has rod joined to slide and handle and thrust hinged to slide and lever

Patent Assignee: REZNICHENKO G P (REZN-I)

Inventor: BONDAR V P; MOROZOV V A; REZNICHENK G P Number of Countries: 001 Number of Patents: 001 : : .

Patent Family:

Patent No Kind Date Applicat No Kind Date Week SU 850063 В 19810730 198220 B

Priority Applications (No Type Date): SU-2676796 A 19781020

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

SU 850063 B 3

... Abstract (Basic): The device for vertebral column dislocation taxis has a hook (1) with lever, body (3), handle (4) and hook rotation mechanism with slide (5) having one end linked by hinge (7) to thrust (6) and the other by threaded aperture (9) to rod (8) which is rigidly fitted in handle (4). Rod (8) has a recess (10) holding bushes (12) with threaded apertures for rigid attachment by...

7/3,K/39 (Item 39 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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003069306

WPI Acc No: 1981-G9344D/198130

200 Vertebrae setting appts. - has hollow body and reposition unit linked with slide fixed on threaded rod , support handles and hook

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. .

Patent Assignee: MOROZOV V A (MORO-I)

Inventor: BONDAR V P; SUZHENKO V G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No SU 776608 B 19801107 Kind Date Week 198130 B

Priority Applications (No Type Date): SU 2661328 A 19780911

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7/7/20 (Item 20 from file: 350) (Item 20 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2006 Thomson Derwent. All rts. reserv.

011603517 \*\*Image available\*\*

WPI Acc No: 1998-020645/199803

Retainer for fixing two adjacent vertebrae in desired alignment - has plates on bones sliding on rods and fixed with fasteners having sleeves screwed in bone and expanders pushing sleeves to engage bone

Patent Assignee: ACROMED CORP (ACRO-N); ACRO MED CORP (ACRO-N) Inventor: BENZEL E C; DINELLO A; SMITH A C; WEFERS M H; YUAN H A

Number of Countries: 017 Number of Patents: 011

1 1150 C

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
EP 809974 A2 19971203 EP 97106895 A 19970425 199803 B
AU 9719159 A 19971204 AU 9719159 A 19970430 199806
US 5713900 A 19980203 US 96656398 A 19960531 199812 JP 10057394 · A 19980303 JP 97139708 A 19970529 199819

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CA 2203943 A 19971130 CA 2203943 A 19970429 199824
KR 97073531 A 19971210 KR 9721484 A 19970529 199847
AU 704390 B 19990422 AU 9719159 A 19970430 199927
CA 2203943 C 19990928 CA 2203943 A 19970429 200006
JP 3022960 B2 20000321 JP 97139708 A 19970529 200019
KR 255722 B1 20000801 KR 9721484 A 19970529 200131
CN 1169849 A 19980114 CN 97112105 A 19970528 200323
Priority Applications (No Type Date): US 96656398 A 19960531
Cited Patents: No-SR.Pub
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
EP 809974 A2 E 12 A61B-017/70
 Designated States (Regional): AT BE CH DE ES FR GB IT LI NL SE
AU 9719159 A A61B-017/64
US 5713900 A 11

JP 10057394 A 9 A61B-017/56

KR 97073531 A A61B-017/58

AU 704390 B A61B-017/64 Previous Publ. patent AU 9719159

CA 2203943 C E

JB 2023960 B2 8 A61B-017/56 Previous Publ. patent JB 10057396
JP 3022960 B2 8 A61B-017/56 Previous Publ. patent JP 10057394
KR 255722 B1 450 A61B-017/58
CN 1169849. A
 A61B-017/70
Abstract (Basic): EP 809974 A
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The frame comprises two vertebra fixing plates (12,14), each of which are bored to slide on two parallel stiff rods (10), and four fasteners (20). The fasteners have outer sleeves (30) and inner expanders (32) and fit through medially angled holes (78) in the plates. The lateral side of each hole opens into the adjacent rod The Marie Sales hole. 

Each sleeve has a coarse outer screw form (36), a head (38) slotted to create four segments (44), and a central bore into whose head end the expander screws. The other end of the sleeve is smaller in diameter and slotted. When tightened, the head of the expander, which is countersunk, forces the sleeve head segments outwards to grip both the plate and its adjacent rod, and the other end of the expander forces the sleeve ends outwards to grip the bone.

ADVANTAGE - The frame's components can be secured together simultaneously in their required position on adjacent vertebrae, simply by tightening the four fasteners.

Dwg.1,2/11 . . . . . Derwent Class: P31 International Patent Class (Main): A61B-017/56; A61B-017/58; A61B-017/64; A61B-017/70 \* \* . \*

(Item 21 from file: 350) DIALOG(R) File 350:Derwent WPIX (c) 2006 Thomson Derwent. All rts. reserv. 010205379 \*\*Image available\*\*
WPI Acc No: 1995-106633/199514

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Dynamic implanted vertebral orthosis - comprises anchoring elements fixed to vertebrae and elastic coupled supporting rods which hold vertebrae in corrected position permitting limited mobility

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Inventor: MARTIN J; MARTIN J R

Serial 10/780426

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February 15, 2006
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 Applicat No
 Kind Date
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WO 9505783 A1 19950302 WO 94FR886 A 19940715 199514 B
FR 2709245 A1 19950303 FR 9310291 A 19930827 199515
FR 2709246 A1 19950303 FR 941438 A 19940207 199515
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US 5672175 A
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 US 96595421 A 19960205
Priority Applications (No Type Date): FR 941438 A 19940207; FR 9310291 A
 19930827; FR 948794 A 19940715; US 96595421 A 19960205
Cited Patents: DE 2821678; DE 2845647; EP 140790; EP 470660; SU 485739; US
 3977397; WO 8504096
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AU 9472659
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AU 9475399 A A61B-017/60 Based on patent WO 9505786
EP 773747 A1 F A61B-017/60 Based on patent WO 9505783
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FR 2709247
 A61B-017/70 · '
FR 2709248 A1
Abstract (Basic): WO 9505783 A
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The orthosis consists of anchoring elements (1-3) which are fixed to the vertebrae, and associated supporting rods (4a,b; 21a,b;22a,b;23a,b;24a,b). The support rods exercise an elastic effort to hold the vertebrae in a corrected position when encountering natural deformation forces.

The supporting rods are connected to the anchoring elements by couplings (5a,5b;6a,6b) which prevent any horizontal transverse movement, but permit a relative movement in at least one other degree of liberty.

USE/ADVANTAGE - Preserves at least a part of the natural mobility of the vertebrae while maintaining a corrected position; suitable for treating spinal deformations resulting from congenital disorders or 

Dwg.1/19

Abstract (Equivalent): US 5672175 A

An implanted dynamic vertebral orthosis for adjusting the relative positions of spinal vertebrae with respect to a vertical 

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> axis comprising anchoring members for securing to the vertebrae and holding means connected to the anchoring members, said holding means including at least one curved holding rod which is flexible and elastic in bending and connected to said anchoring members for anchoring at least two different vertebrae , and coupling means for connecting said holding rod to said anchoring members, wherein said coupling means comprises a first coupling member preventing all relative horizontal translational sliding movement of the vertebrae , while permitting relative longitudinal translational sliding movement along said vertical axis and relative rotational movement about said vertical axis of said holding means having elastic return means capable of exerting elastic return forces having predetermined orientation and magnitude between said anchoring members, for holding the vertebrae in a predetermined corrected position against natural deforming forces for reducing the overall forces exerted on the vertebrae .

Dwg.1/19

Derwent Class: P31

International Patent Class (Main): A61B-017/56; A61B-017/60; A61B-017/70
International Patent Class (Additional): A61B-017/02

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7/TI/6 (Item 6 from file: 350)

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Rod fixing device for vertebral column treatment, has engaging portions of bone screw mutually engaged with engagement portions of cap, enabling cap to slide within surface orthogonal to axial direction of bone screw

7/TI/11 (Item 11 from file: 350)
DIALOG(R)File 350:(c) 2006: Thomson Derwent. All rts. reserv.
Three-dimensional locator for pedicle for cervical vertebra arch

7/TI/14 (Item 14 from file: 350)

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DIALOG(R) File 350:(c) 2006 Thomson Derwent. All rts. reserv.

Vertebral anchor pulling device used in orthopaedic and spinal surgery has moving piece which displaces tension rod to proximal direction with respect to cylindrical telescopic housing

7/TI/18 (Item 18 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Hook-type implant for vertebral osteosynthesis - has hook joined to fixing head and counter-hook adjustable relative to it by means of a rod or peg so that both hooks fit round the vertebra

7/TI/19 (Item 19 from file: 350)

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DIALOG(R) File 350:(c) 2006 Thomson Derwent. All rts. reserv.

Instrument for lateral transcutaneous stereotaxic puncturing of intervertebral discs - has carrier section fixed to upright and equipped with angle measuring mechanism

7/TI/22 (Item 22 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Clamp for vertebral locking rod - has outer clamp with U-shaped mount provided in both inner sides with fitting member

7/TI/32 (Item 32 from file: 350)

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DIALOG(R) File 350:(c) 2006 Thomson Derwent. All rts. reserv.

Anthropomorphic dummy frame - has flexible rod with coaxial spool carrying ribs

7/TI/33 (Item 33 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Vertebral implant for osteosynthesis system - comprises anchor(s) with channel in head for rigid rod and main and auxiliary locking screws

7/TI/34 (Item 34 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Implant for rigid vertebra fixing - has jaw pulled by nut into eyelet tapered bore to clamp specified screw

7/TI/35 (Item 35 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Spinal subcutaneous, compression and distraction rod - comprises elongated housing with connectors for clamp for connection to vertebrae

7/TI/42 (Item 42 from file: 347)
DIALOG(R)File 347:(c) 2006 JPO & JAPIO. All rts. reserv.
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 Spinal implant connection assembly
 AUTHOR: Simonson P M
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